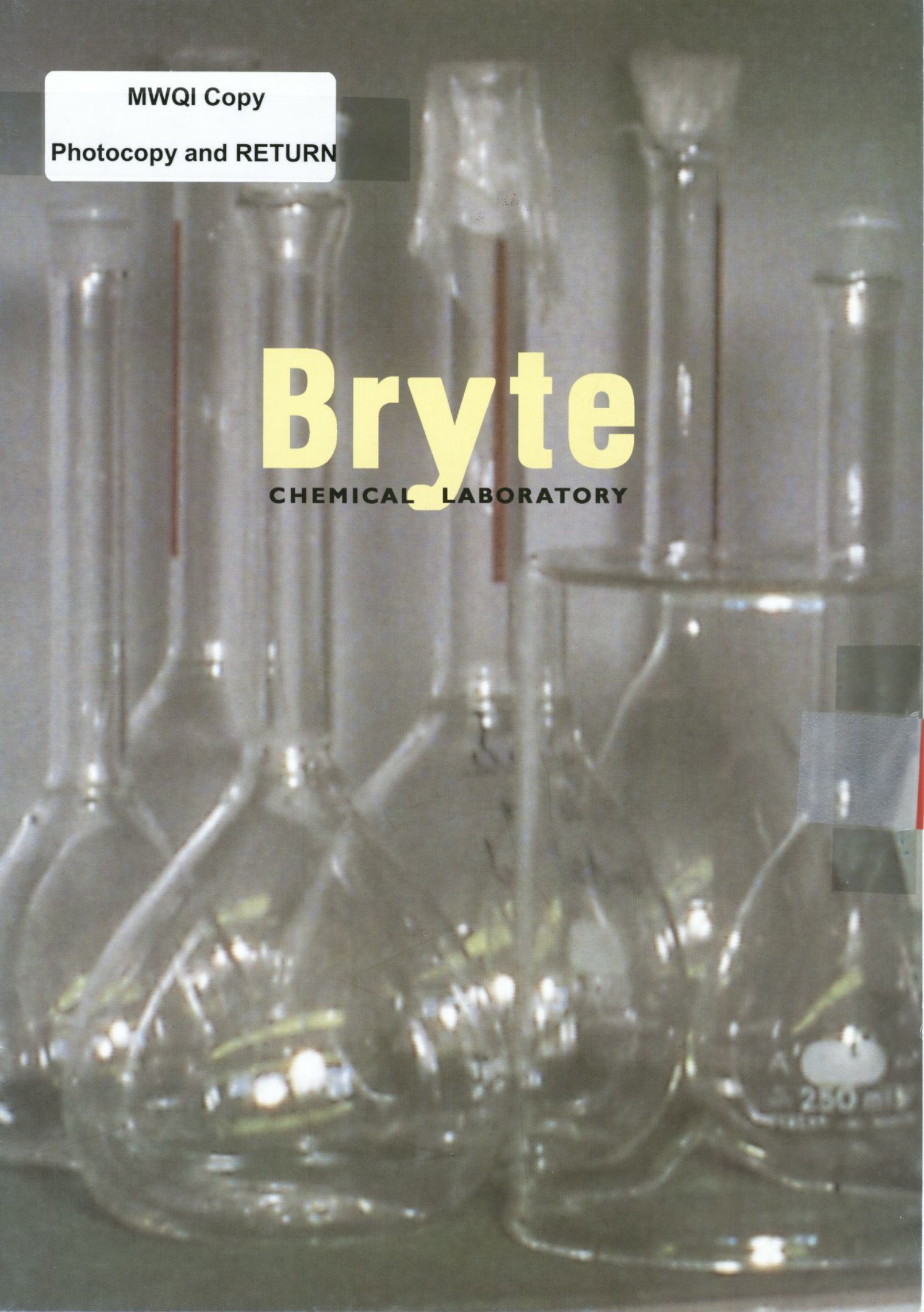


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# Bryte

CHEMICAL LABORATORY







*The Laboratory's staff  
and cost-effective analytical  
perform APPROVED AND*



## INORGANIC

General mineral analysis  
General physical analysis  
Nutrient analysis

## ORGANIC

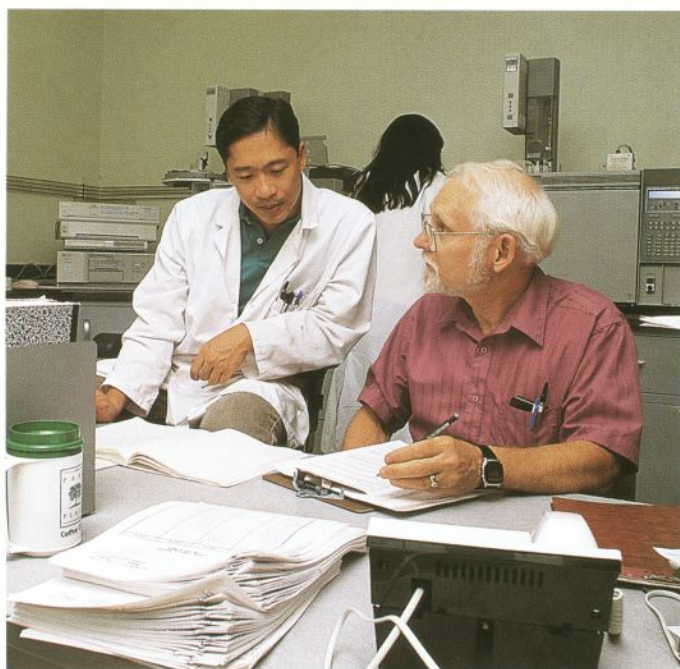
Volatile organic analysis  
Semivolatile organic analysis  
(pesticide/herbicides/PCBs)

## METALS

Total metals  
Dissolved metals

## MICROBIOLOGICALS

Fecal coliforms



The Bryte Chemical Laboratory is the Department of Water Resources' primary analytical laboratory. Its primary function is to analyze drinking water (Safe Drinking Water Act and Title 22), surface water, groundwater, and wastewater (Clean Water Act and Title 22 of the California Code of Regulations). All of the analytical services that are performed have Standardized Operating Procedures complying with Environmental Laboratory Accreditation Program and are based on one of the following references: U.S. Environmental Protection Agency; Standard Methods, published by American Public Health Association; American Water Works Association; Water Environment Federation; American Society for Testing and Materials; and Association of Official Analytical Chemists.

Bryte Laboratory maintains a staff of experienced chemists, laboratory technicians, laboratory assistants, and quality assurance/quality control personnel. Together, they provide analytical services that meet USEPA requirements using Good Laboratory Practice standards. The Laboratory maintains USEPA certification for water analysis by the California Department of Health Services Environmental Laboratory Accreditation Program and has participated in the U.S. Geological Survey semiannual interlaboratory evaluation program since 1978.

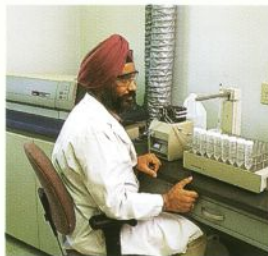
Bryte Laboratory has a comprehensive QA/QC program that meets or exceeds the rigorous criteria established by USEPA and other government agencies. To ensure continuous production of the highest quality data, the Laboratory integrates responsibility for the QA/QC Program into all staff and management levels including an independent QA oversight program. This approach guarantees that all generated data reported are scientifically valid, accurate, and precise.



*provides precise, accurate,  
services using instrumentation to  
CERTIFIED methodologies*

Bryte Laboratory has developed a Field and Laboratory Information Management System for automating and handling sample data transactions and information. This advanced system for data management/processing provides efficient flexibility for managing, monitoring, and tracking samples. This system accepts electronic submissions of sample data information from collection, through submittal and analysis, to generating the final data reports of the sample results including all the necessary QA/QC information. FLIMS can generate the final data reports in hard page copy and electronic formats.

Bryte Laboratory is available to all units within DWR and to public agencies. Through a master laboratory contract policy, Bryte Laboratory has the responsibility of creating master laboratory contracts with commercial laboratories. This policy provides analytical services which are not available at Bryte Laboratory. All that is required to use the master contract laboratory service is a work authority number from the program manager or end user. This policy ensures that analytical work accomplished by contract laboratories is reviewed under the QA/QC Program and conforms to quality criteria before results are accepted. If problem data are identified, contract laboratories are required to analyze samples again and/or allow the Department to withhold payment for inadequate work. This policy also requires that data be computerized in a standardized format which allows centralization and final storage.



## INSTRUMENTATION

*Gas Chromatography and Gas Chromatography/Mass Spectrometry* is used for volatile organic compounds, semivolatile organic compounds, pesticides, herbicides, and PCBs. *High Performance Liquid Chromatography* is used for pesticides and herbicides. *Inductively Coupled Plasma/Mass Spectrometry* is used for low-level metals and miscellaneous elements. *Inductively Coupled Plasma Emission* is used for metals and miscellaneous elements. *Graphite Furnace Atomic Absorption* is used for low-level metals. *Ion Chromatography* used for anions.





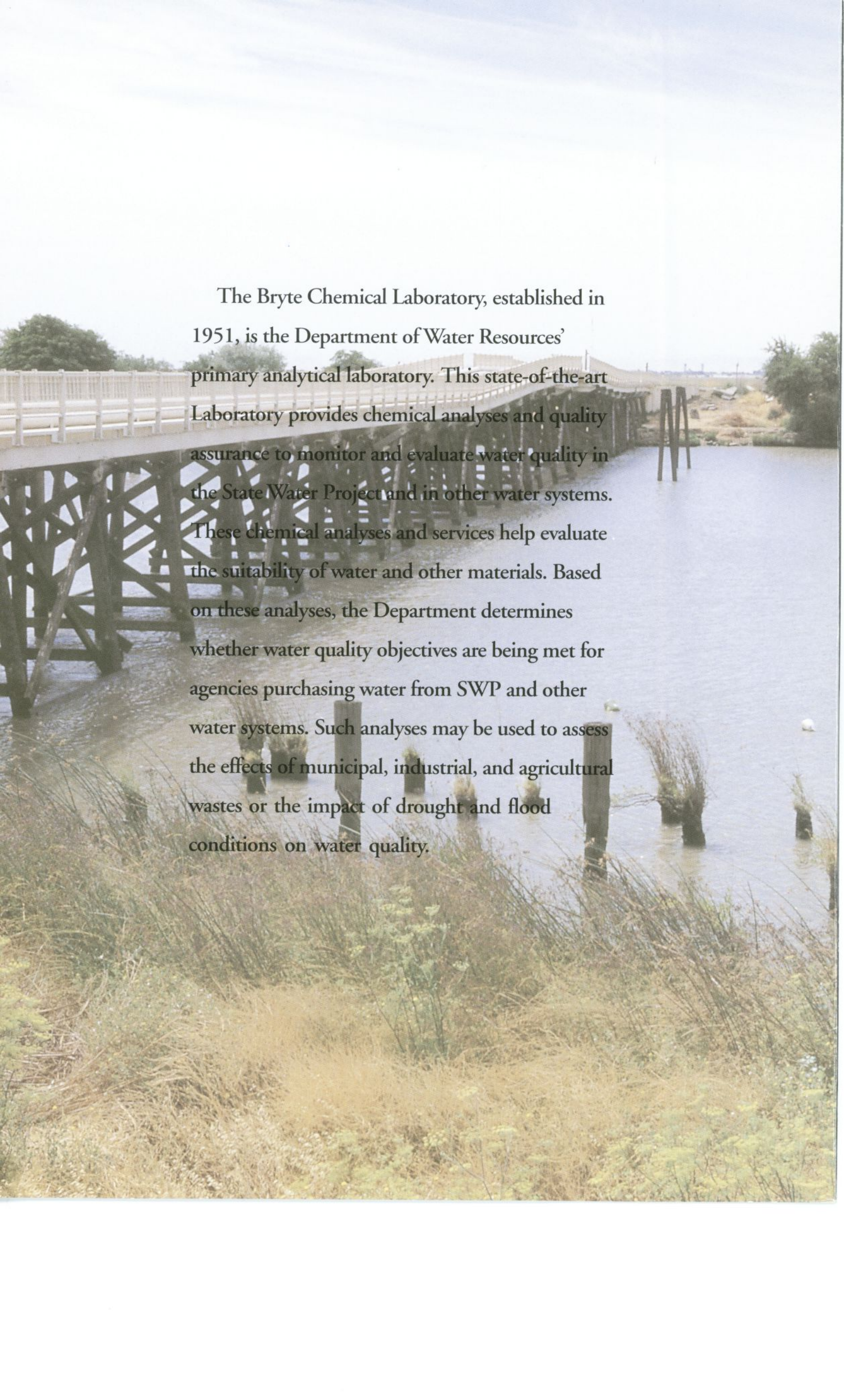
#### Submitting Samples

Bryte Laboratory has a fully equipped facility for proper sample storage and security, including monitored refrigeration and freezing to maintain sample integrity. Samples may be shipped to the Laboratory or deposited at the receiving area between 8 a.m. and 5 p.m., Monday through Friday. A completed sample submittal form (Chain of Custody) must accompany any sample sent to the Bryte Laboratory. Samples must be submitted to the Laboratory in approved containers and preserved appropriately. The Laboratory will provide all the proper sample containers and necessary sample preservatives. Please call (916) 375-6008 with questions regarding submittal procedures, sample containers, or shipment. The Laboratory is located at 1450 Riverbank Road, West Sacramento, California 95605.

#### Field Sampling Services

Water quality sampling services are available through the Water Quality Assessment Branch, Field Support Unit of DWR. This group is located adjacent to the DWR Bryte Chemical Laboratory. Available services include the sampling of surface and groundwater, soil and sediment sampling for a wide range of organic and inorganic constituents, and water-borne pathogens such as *Giardia*, *Cryptosporidium*, and *Coliforms*. In addition, the Field Support Unit maintains a 25-foot sampling vessel equipped for sampling operations within the Delta and surrounding waterways. Staff can also provide assistance in the development of sampling plans with the appropriate QA/QC components specific to the needs of each project to assure the quality of sample data. For further information on the services offered by the Field Support Unit, call David Gonzalez at (916) 371-3163 or contact him at the above address.



A photograph of a wooden bridge with a white railing crossing a body of water. In the foreground, there is a field of tall, dry, yellowish-brown grass. The bridge has a complex wooden support structure. In the background, there are some trees and a distant shoreline under a cloudy sky.

The Bryte Chemical Laboratory, established in 1951, is the Department of Water Resources' primary analytical laboratory. This state-of-the-art Laboratory provides chemical analyses and quality assurance to monitor and evaluate water quality in the State Water Project and in other water systems. These chemical analyses and services help evaluate the suitability of water and other materials. Based on these analyses, the Department determines whether water quality objectives are being met for agencies purchasing water from SWP and other water systems. Such analyses may be used to assess the effects of municipal, industrial, and agricultural wastes or the impact of drought and flood conditions on water quality.





# Fee Schedule

Code	Type of Analysis or Method	Unit Price **	Reporting Limit
1	Standard Mineral (27-30, 32-34, 39, 41, 54, 58)	\$159	0.1 - 1.0 mg/L
2	Standard Nutrient (40, 43, 45, 46, 48)	\$105	0.01 - 0.1 mg/L
3			
4	Chlorinated Pesticide	\$175	0. 01 - 1.0 ug/L
5	Nitrogen / Phosphorus Pesticides	\$175	0.01 - 1.0 ug/L
6	Herbicides (chlorinated phenoxy acids)	\$175	0.01 - 0.1 ug/L
*	O&M Misc Pesticides (Glyphosate, AMPA, Propargite)	\$325	1 - 100 ug/L
7	Volatile Organics (including MTBE)	\$175	< 0.5 ug/L
*	MTBE only	\$100	< 1 ug/L
8	Trihalomethane Potentials (THMFP)	\$170	< 1 ug/L
9	Carbamates (EPA 531.1)	\$150	2 - 4 ug/L
*	EDB and DBCP (EPA 504)	\$100	0.01 - 0.010 ug/L
*	Glyphosate (EPA 547)	\$150	< 100 ug/L
*	Trihalomethane (THM's only)	\$85	< 1 ug/L
*	Haloacetic Acids (EPA 552.2)	\$150	variable
*	SDS (THMFP + HAAFP)	\$320	variable
*	Reactivity Test for THMFP only (see note:)	\$170	variable
*	Reactivity Test for THMFP and HAAFP (see note:)	\$320	variable
*	Fecal Coliforms	\$25	< 1 MPN
10			
11	Arsenic	\$15	< 1 ug/L
12	Barium	\$15	< 50 ug/l
*	Beryllium	\$15	< 1 ug/L
13	Cadium	\$15	< 1 ug/L
14	Strontium	\$15	< 5 ug/L
*	Cobalt	\$15	< 5 ug/L
15	Chromium (all valences)	\$15	< 5 ug/L
16	Copper	\$15	< 1 ug/L
17	Iron	\$15	< 5 ug/L
18	Aluminum	\$15	< 10 ug/L
19	Lead	\$15	< 1 ug/L
20	Manganese	\$15	< 5 ug/L
21	Mercury	\$43	< 0.2 ug/L
22	Nickel	\$15	< 5 ug/L
23	Selenium	\$43	< 1 ug/L
24	Silver	\$15	< 1 ug/L
*	Thallium	\$15	< 1 ug/L
25	Zinc	\$15	< 5 ug/L
*	Vanadium	\$15	< 1 ug/L
26	Molybdenum	\$15	< 5 ug/L
27	Calcium	\$15	< 1 ug/L
28	Magnesium	\$15	< 1 mg/L
29	Sodium	\$15	< 1 mg/L
30	Potassium	\$15	< 0.5 mg/L
31	Lithium	\$15	< 5 ug/L
32	Alkalinity	\$15	< 1 mg/L

Special and Nonvolume Work

\$65.00/Hr.

Code	Type of Analysis or Method	Unit Price **	Reporting Limit
33	Sulfate	\$16	< 1 mg/L
34	Chloride	\$15	< 1 mg/L
35	Fluoride	\$20	< 0.1 mg/L
36	Bromide	\$25	< 0.010 mg/L
37			
38	Silica	\$15	< 0.1 mg/L
39	Boron	\$15	< 0.1 mg/L
40	Nitrate + Nitrite	\$15	< 0.01 mg/L as N
41	Nitrate	\$15	< 0.01 mg/L as N
42	Nitrite	\$14	< 0.01 mg/L as N
43	Ammonia	\$15	< 0.01 mg/L as N
44	Dissolved Organic Nitrogen (requires 43)	\$30	< 0.1 mg/L as N
45	Organic Nitrogen and Ammonia	\$30	< 0.1 mg/L as N
46	Dissolved Orthophosphate	\$15	< 0.01 mg/L as P
47			
48	Total Phosphorus (not filtered)	\$30	< 0.01 mg/L as P
49			
50			
51			
52	Oil and Grease	\$45	< 1 mg/L
53	MBAS	\$40	0.1 mg/L ABS/LAS
54	Dissolved Solids (TDS)	\$15	< 1 mg/L
55	Suspended Solids	\$36	< 1 mg/L
56	Volatile and Suspended Solids	\$40	< 1 mg/L
57	Settleable Solids (settleable matter), ml/L	\$10	< 1 ml/L
58	Specific Conductance	\$8	< 1 umhos/cm
59	Turbidity	\$10	< 1 NTU
60			
61	Color (requires pH)	\$15	5 Color units
62	pH	\$8	0.1 pH unit
63			
64	Biochemical Oxygen Demand	\$40	< 1 mg/L
65	Biochemical Oxygen Demand (wastewater)	\$115	< 1 mg/L
66	Total Organic Carbon	\$40	< 0.1 mg/L
67	Tannin and Lignin	\$35	< 0.1 mg/L
68	Project Std (11, 15, 16, 17, 19, 20, 23, 25, 27-9, 32-5, 39, 41, 54, 58, 59)	\$350	variable
68a	Project Additional (12, 13, 18, 21, 24)	\$103	variable
69	Project Partial (27-9, 32-4, 39, 54, 58)	\$129	variable
70	Membrane filtration	\$10	
71	Total metals prep: acid digestion (aqueous sample)***	\$15	
	Total metals prep: soil, sediment or any solid material	\$35	
72	UVA (requires pH)	\$20	< 0.001 abs/cm
*	DI WET Extract/Soil prep	\$100	
*	Organics prep: soils, sediments, sludges or solid material	\$75	
*	Electrical Conductivity standards (1/2 gallon)	\$20	

Note: Reactivity test and SDS require Code 43 (ammonia) and Code 66 (Total organic carbon)

\* No Code Number assigned.

\*\* Volume basis, 12 samples or more.

\*\*\* Total Metals are not filtered and therefore include dissolved, suspended and precipitated metals. Metals not designated Total are filtered in the field and include only dissolved metals.







California Department of Water Resources



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